

Saulo Müller Soares

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EDUCATION	University of Hawai'i at Mānoa, Honolulu, Hawaii, USA	
	Ph.D., Oceanography	2015
	<ul style="list-style-type: none">• Dissertation Title: Generation, Propagation and Dissipation of Near-Inertial Waves in the Tropical Ocean• Advisor: Kelvin J. Richards	
	Universidade de São Paulo, São Paulo, São Paulo, Brazil	
	M.S., Physical Oceanography	2007
	<ul style="list-style-type: none">• Thesis title: Unstable waves in the Brazil Current• Advisor: Ilson C. A. da Silveira	
	Universidade Federal do Rio Grande, Rio Grande, Rio Grande do Sul, Brazil	
	B.S., Oceanology	2005
	<ul style="list-style-type: none">• Thesis title: Frontal Eddies in the Brazil Current off the Coast of Rio Grande do Sul• Advisor: Ivan Dias Soares	
FELLOWSHIPS, HONORS AND AWARDS	Fulbright Scholar, Fulbright-CAPES Fellow	Fall 2007 – Summer 2011
	Scholarship to pursue a doctoral degree at the University of Hawai'i at Mānoa	
	University of Hawai'i Graduate Student Organization Award	Fall 2014
	Monetary award to cover research related expenses of the ENIW project.	
	STAR Achievement Scholarship	Fall 2008 and Spring 2015
	Monetary award from the University of Hawai'i given to outstanding graduate students.	
RESEARCH EXPERIENCE	International Pacific Research Center, University of Hawaii at Manoa	
	Postdoctoral Fellow	Feb 2015 – Present
	<ul style="list-style-type: none">• Project: Intraseasonal variability of the upper ocean in the Seycelles-Chagos Thermocline Ridge region and its impact on MJO initiation and development• Supervisors: Kelvin Richards, H. Annamalai• Research areas: Data analysis, Upper ocean mixing, Air-Sea interactions, Physical Oceanography	
	Department of Oceanography, University of Hawaii at Manoa	
	Graduate Research Assistant	Aug 2011 – Jul 2014
	<ul style="list-style-type: none">• Project: Various.• Supervisors: Kelvin Richards• Research areas: Data analysis and numerical modeling, Internal Waves and Mixing, Tropical physical oceanography	
	Ph.D. candidate	Aug 2007 – Jan 2015
<ul style="list-style-type: none">• Project: Ocean response to Easterly Waves and near-inertial motions in the tropics.• Supervisors: Kelvin Richards• Research areas: Data analysis and numerical modeling, Internal Waves and Mixing, Tropical physical oceanography		
	Instituto Oceanográfico, Universidade de São Paulo,	
	M.S. candidate,	Mar 2005 – Jun 2007
	<ul style="list-style-type: none">• Project: Instabilities of the Brazil Current.• Supervisors: Ilson C. A. da Silveira• Research areas: Mesoscale eddies, Geophysical instabilities, Numerical modeling, Physical Oceanography	
	Departamento de Física, Universidade Federal do Rio Grande,	
	Undergraduate research assistant	2003 – 2004
	<ul style="list-style-type: none">• Project: Brazil current eddies at the shelf break in southern Brazil coast.• Supervisors: Ivan D. Soares• Research areas: Numerical modeling, Satellite imagery, Shelf-break exchange processes, Physical Oceanography	

TEACHING EXPERIENCE	<p>Summer course “Microbial Oceanography: Genomes to Biomes” Jun 2015 Center for Microbial Oceanography: Research and Education, SOEST Instructor/Faculty</p> <ul style="list-style-type: none"> • Teach Physical Oceanography of the Hawaiian islands and CTD and general deck operations for the student-cruise. • Help students with analysis and graphing of their data for the final presentation. • Supervisors: Matthew Church, Dave Karl <p>OCN 201: Science of the Sea Fall 2014 Department of Oceanography, UH Manoa Teaching Assistant</p> <ul style="list-style-type: none"> • Topics: Comprehensive overview of physical, chemical, biological and geological oceanography through classroom lectures and laboratory hands-on practices. Lecture TA and lab instructor. • Supervisors: Chris Measures <p>School of Ocean and Earth Sciences and Technology (SOEST) Tutor Spring 2010 University of Hawaii at Manoa Science Tutor for SOEST undergraduate students</p> <ul style="list-style-type: none"> • Topics: Math, Physics, Chemistry and Computer programming. • Supervisors: Leona Anthony <p>OCN 310L: Global Environmental Change lab Fall 2008 and Fall 2009 Global Environmental Science Program, Department of Oceanography, UH Manoa Teaching Assistant</p> <ul style="list-style-type: none"> • Topics: Earth system sciences, climate and environmental change, Matlab and numerical techniques. Hands-on paper and pen and computer analysis of a variety of Earth system problems. • Supervisors: Richard Zeebe <p>IOF 1224: Waves and Tides 2007 B.S. in Oceanography Program, Instituto Oceanográfico, Universidade de São Paulo Teaching Assistant</p> <ul style="list-style-type: none"> • Topics: Physical oceanography, gravity waves and tides. • Supervisors: Sueli S. de Godoi <p>IOF 1222: Ocean Dynamics II 2006 B.S. in Oceanography Program, Instituto Oceanográfico, Universidade de São Paulo Teaching Assistant</p> <ul style="list-style-type: none"> • Topics: Physical oceanography, Geophysical fluid dynamics up to quasi-geostrophy. • Supervisors: Ilson C. A. da Silveira
RESEARCH GRANTS	<p>State Funded Time on R/V Kilo Moana in Early 2011, 2010 SOEST, University of Hawaii at Manoa Awarded 3 days of research aboard the Kilo Moana (later transferred to R/V Falkor) to measure episodic nutrient inputs by wind forced motions in the vicinity of Hawaii (ENIW project moniker). Cost of dissolved nutrient laboratory analysis covered by a GSO grant.</p>
OTHER WORK/ PROFESSIONAL EXPERIENCE	<p>MRI Estudos Ambientais C.I.A Ltda, Porto Alegre, Brazil 2004 Intern and Environmental consultant Provided analysis of numerical simulations for an environmental impact assessment report.</p>

FIELD EXPERIENCE	<i>R/V Falkor</i> , Mixing in the Central Equatorial Pacific, 17 days CTD, LADCP and deck operations. Nutrient sample collection from Niskin bottles. PI: Kelvin Richards.	Aug 2015
	<i>R/V Kilo Moana</i> , Summer Course in Microbial Oceanography, 7 days Instructor of CTD and deck operations. PI: Matthew Church.	Jun 2015
	<i>R/V Falkor</i> , Kaena-Ridge Hydraulic Jump/ENIW (Student cruises leg 2), 4 days Co-PI responsible for biological and chemical sampling, planning and execution. Co-PI: Glenn Carter.	Apr 2014
	<i>R/V Kilo Moana</i> , MIXET II, 26 days Watch leader, CTD console operator, assisted in MSP deployments and MMP mooring recoveries. PI: Kelvin Richards.	Oct 2012
	<i>R/V Kilo Moana</i> , MIXET I, 28 days CTD console operator, assisted in MSP and MMP mooring deployments. PI: Kelvin Richards.	Apr 2012
	<i>R/V Kilo Moana</i> , MMP mooring deployment near , 5 days CTD console operator, nutrient sample collection for ENIW. PI: Mathew Alford.	Jan 2012
	<i>R/V Mirai</i> , TRITON western Pacific mooring array maintenance, 34 days LADCP operator. PI: Yuji Kashino (JAMSTEC, Japan).	Aug 2011
	<i>R/V Kaimimoana</i> , TAO eastern Pacific mooring array maintenance, 32 days LADCP operator. PI: Lex LeBlanc (NOAA).	Apr 2010
PROFESSIONAL DEVELOPMENT	Proposal Writing Workshop, C-MORE, UH Manoa Day long workshop for writing an effective proposal, focused on different styles of proposal writing, including NSF-style, mission-based (SeaGrant, NOAA), and private foundations.	Sep 2015
	Python in Scientific Computing, UCAR SEA Software Engineering Conference and Tutorials on using python for the analysis of large data sets and collaborative development.	Apr 2015
	COMPASS Media and Science Communication Training, Schmidt Ocean Institute Workshop to train scientist in communicating to the media/press and general audiences.	Feb 2014
	CESM Tutorial, NCAR 5 days workshop on setting up and running custom applications of the Community Earth System Model (CESM).	Jul 2012
	ASP's Summer Colloquium, NCAR "Marine Ecosystems and Climate: Modeling and Analysis of Observed Variability". Two weeks summer course.	Aug 2009
LEADERSHIP AND SERVICE	Reviewer, Journal of Physical Oceanography	2016 – Present
	Professional Development Organizing Committee (PDOC), Vice-President PDOC is a Registered Independent Organization of graduate students and post-docs in the University of Hawaii that design and implements workshops for professional development and skill training, such as proposal writing, job applications, science communication and outreach, online presence.	Fall 2015 – Present
	Nā Kama Kai representative, Representative for the oceanography graduate student organization (Nā Kama Kai) in the physical oceanography division of the Department of Oceanography.	2011 – 2012
OUTREACH	Impacts of ocean acidification and rising temperatures on coral reefs. Aquatic Conference, Kauai, HI Talk for general audience and community stake holders.	Jan 2009 Hawaii
	"Notions on Oceanography: Application of an Interdisciplinary Science", Ubatuba, Brazil Member of organizing committee and instructor Week long summer courses on basic and interdisciplinary oceanography for general audiences, targeting traditional fishing communities of São Paulo's northern coastline.	2005 – 2006

PUBLICATIONS**REFEREED/PEER-REVIEWED**

- 1) Benedetto, B., D. P. Nicholson, A. Natarov, S. M. Soares, K. J. Richards and D. M. Karl: Mesoscale eddy structure and horizontal biogeochemical variability from autonomous observations in the North Pacific Subtropical Gyre. *Submitted to J. Geophys. Res. Oceans.*
- 2) Soares, S. M., A. Natarov, and K. J. Richards : Internal swells in the tropics: Near-inertial wave energy fluxes and dissipation during CINDY. *J. Geophys. Res. Oceans*, **121**(5), 3297–3324, doi:10.1002/2015JC011600, 2016.
- 3) Richards, K.J., A. Natarov, E. Firing, Y. Kashino, Soares, S. M., M. Ishizu, G.S. Carter, J.H. Lee, and K.I. Chang: Shear-generated turbulence in the equatorial Pacific produced by small vertical scale flow features. *J. Geophys. Res.-Oceans*, **120**(5), 3777–3791, doi:10.1002/2014JC010673, 2015.
- 4) Soares, S.M., and K.J. Richards: Radiation of inertial kinetic energy as near-inertial waves forced by tropical Pacific Easterly Waves. *Geophys. Res. Lett.*, **40**(9), 1760–1765, doi:10.1002/grl.50387, 2013.

**PRESENTATIONS
AND TALKS****SEMINARS**

- 1) Soares, S.M.: The seasonal cycle of the tropical south Indian Ocean and its impact on interannual and intraseasonal variability. Dept. of Oceanography, University of Hawaii, Honolulu. December 2016.
- 2) Soares, S.M.: Intraseasonal variability of the upper ocean in the Seycelles-Chagos Thermocline Ridge Region and its impact on Madden-Julian Oscillation (MJO) initiation and development. CVP Webinar series, NOAA. November 2016.
- 3) Soares, S.M.: Near-Inertial Waves in the Tropics: Results from the CINDY2011 Experiment. Scripps Institution of Oceanography, University of California San Diego. December 2015.
- 4) Soares, S.M.: The near-inertial response to resonant wind forcing and its role in mixing the tropical Pacific Ocean. University of Tokyo and JAMSTEC, Japan. August 2011.

CONFERENCE TALKS

- 1) Soares, S.M., K.J., Richards: Mixing due to resonant forcing by easterly waves in the northeastern tropical Pacific. 2012 Ocean Sciences Meeting, Salt Lake City, UT.
- 2) Soares, S.M., K.J., Richards: Mixing induced by synoptic waves in the northeast tropical Pacific and the role of near-inertial oscillations. 2010 Ocean Sciences Meeting, Portland, OR.

CONFERENCE POSTERS

- 1) Soares, S.M., K.J., Richards, H. Annamalai, A. Natarov. The Impact of Salinity on the Seasonal and Interannual Variability of the Upper Ocean Structure and Air/Sea Interaction in the South Eastern Tropical Indian Ocean. 2016 Ocean Sciences Meeting, New Orleans.
- 2) Soares, S.M., K.J., Richards, A. Natarov. Near Inertial Waves in the tropical Indian Ocean: Energy fluxes and dissipation. 2014 Ocean Sciences Meeting, Honolulu, HI.
- 3) Soares, S.M., I. D. Soares, O. O. Jr. Moller. Observações de Vórtices Frontais da Corrente do Brasil ao largo da costa do Rio Grande do Sul (RS). II Congresso Brasileiro de Oceanografia, Vitória, ES, 2005.

**PROFESSIONAL
AFFILIATIONS**

American Geophysical Union, Member

2010 – Present

LANGUAGES

Portuguese: Native language.

English: Fluent (speaking, reading, writing).

Spanish: Fluent (reading, speaking); basic (writing).

SKILLS

Proficient on: Python, Fortran, Matlab, Linux, Latex, Web page development (html, css, markup), Limited knowledge: NCL and C